

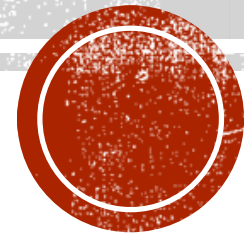
# WELCOME TO THE TRM USER FORUM

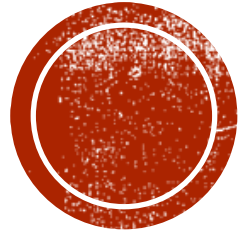
OCTOBER 5, 2020

## AGENDA:

- WELCOME AND INTRODUCTION
- LOGISTICS
- TRM SERVICE BUREAU RESTRUCTURING
- TRMG2 (CALIPER)
- IDEA GENERATION – USER TOOLS
- POST MEETING SURVEY
- NEXT MEETING – SPRING 2021

*The Meeting Will Begin Soon*





# WELCOME AND INTRODUCTIONS

# TRM TECHNICAL TEAM

*Role: Technical staff working for ITRE plus technical staff employed by stakeholder agencies who have been assigned to work on TRM tasks in the adopted annual work program.*

- ITRE
  - Leta Huntsinger, Tao Li, Fizzy Fan
- CAMPO
  - Gerald Daniel, Mike Bruff
- DCHC
  - Yanping Zhang, Jake Ford
- GoTriangle
  - In kind contribution
- NCDOT
  - Xin Wang



# TRM COORDINATION TEAM

*Role: Agency staff members who are engaged in model development work from the perspective of an end user.*

- CAMPO
  - Alex Rickard
- DCHC
  - Yanping Zhang
- GoTriangle
  - Jay Heikes
  - Bonnie Guo
- NCDOT
  - Tae-Gyu Kim



# EXECUTIVE COMMITTEE

Role: *Executive level staff members from the stakeholder agencies responsible for the oversight of the TRM work program and resources.*

- CAMPO
  - Chris Lukasina
- DCHC
  - Felix Nwoko
- GoTriangle
  - Katharine Eggleston
- NCDOT
  - Travis Marshall



# FORUM PARTICIPANTS

- Arcadis
- Caliper
- Cambridge Systematics
- CTG Consult
- HNTB
- Kimley-Horn
- Patriot Engineering
- RKK
- RSG
- Stantec
- STV
- Three Oaks Engineering
- Timmons
- VHB
- WSP





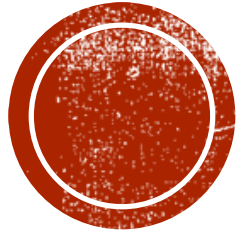
# POLLING

Role

Frequency of Use







**LOGISTICS**





Open Dialog

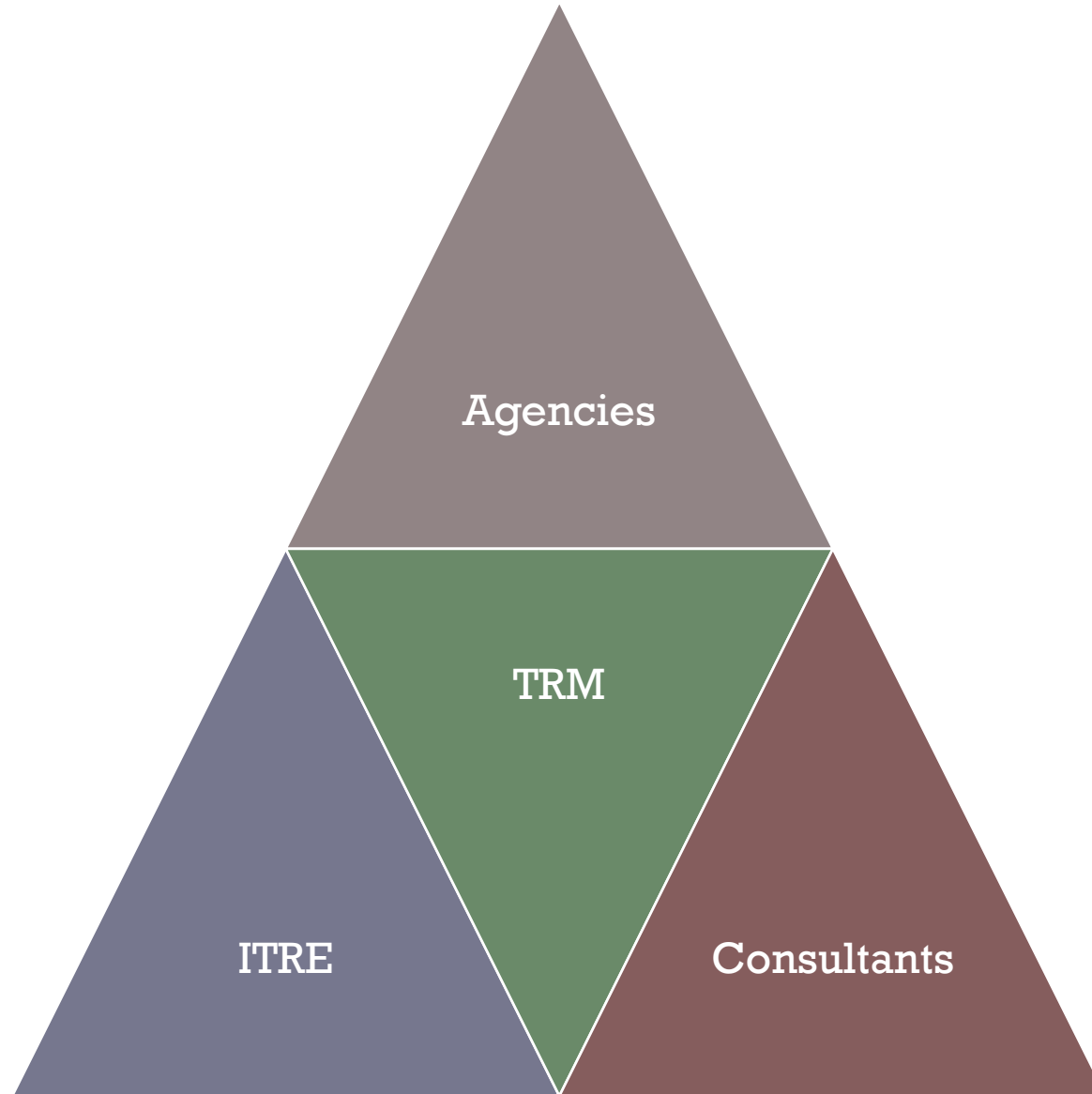
Share Ideas



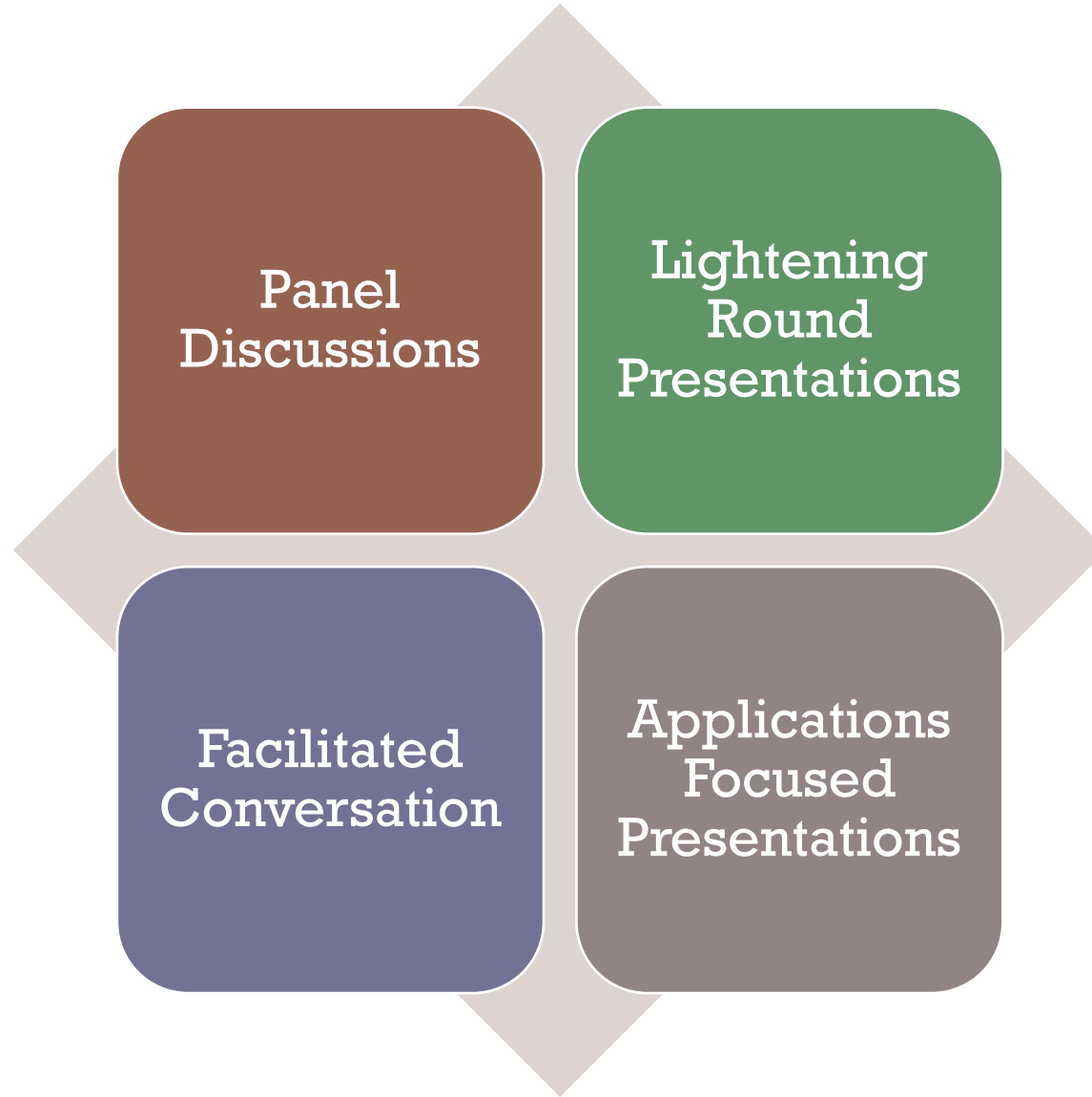
**Model Improvements**



# ROLES



# FORMAT

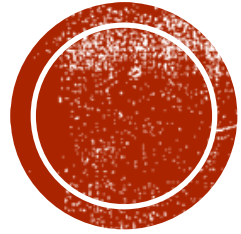




# POLLING

Ease of Use





# TRMSB RESTRUCTURING



## Previous Construct

- Focus
  - Model development
- Team Structure
  - 4 full time team members
    - Program Manager
    - Research Fellow
    - Senior Research Associate
    - Research Associate
  - 0.5 FTE
    - CAMPO
    - DCHC
    - NCDOT

## Current Construct

- Focus
  - Model Maintenance and Applications
  - Model Enhancements
  - Data Management
  - Data Analytics
  - Technical Support, Training and Outreach
- Model Development contracted out
- Team Structure
  - 3 shared time team members
- 0.5 FTE (no change)





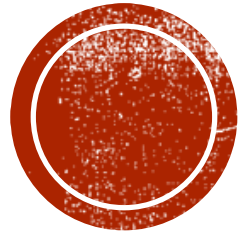


# POLLING

TRM User Guide

Scenario Planning





**TRMG2**

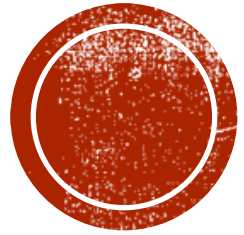
Caliper



# POLLING

Network Tools





# IDEA GENERATION

User Tools

# CURRENT TOOLS UNDER DEVELOPMENT

- Percent of poverty HHs within  $\frac{1}{4}$  mile or  $\frac{1}{2}$  mile of bus stop
- Percent of population whose average trip time is greater than 15 min
- Cost of congestion (delay, in million \$)
- Percent of zero and one car HHs within  $\frac{1}{4}$  mile or  $\frac{1}{2}$  mile of bus stop
- VMT per Capita (Region, MPO, County)
- By TAZ, % of regional jobs accessible within 30-45-60 min auto trip, and 30-45-60 min transit trip
- Daily minutes of delay per Capita (Region, MPO, County)
- Percent of transit, bicycle and pedestrian mode share (regionally)





# TRMG2 TOOLS

- User friendly and efficient calculation of daily or TOD transit flow, boarding and OD pairs.
- User friendly interface that supports post processing MOEs for
  - Congestion map
  - Travel time isochrones (time permitting)
  - Select link/zone analysis (time permitting)
- Output csv files to support mapping and graphics

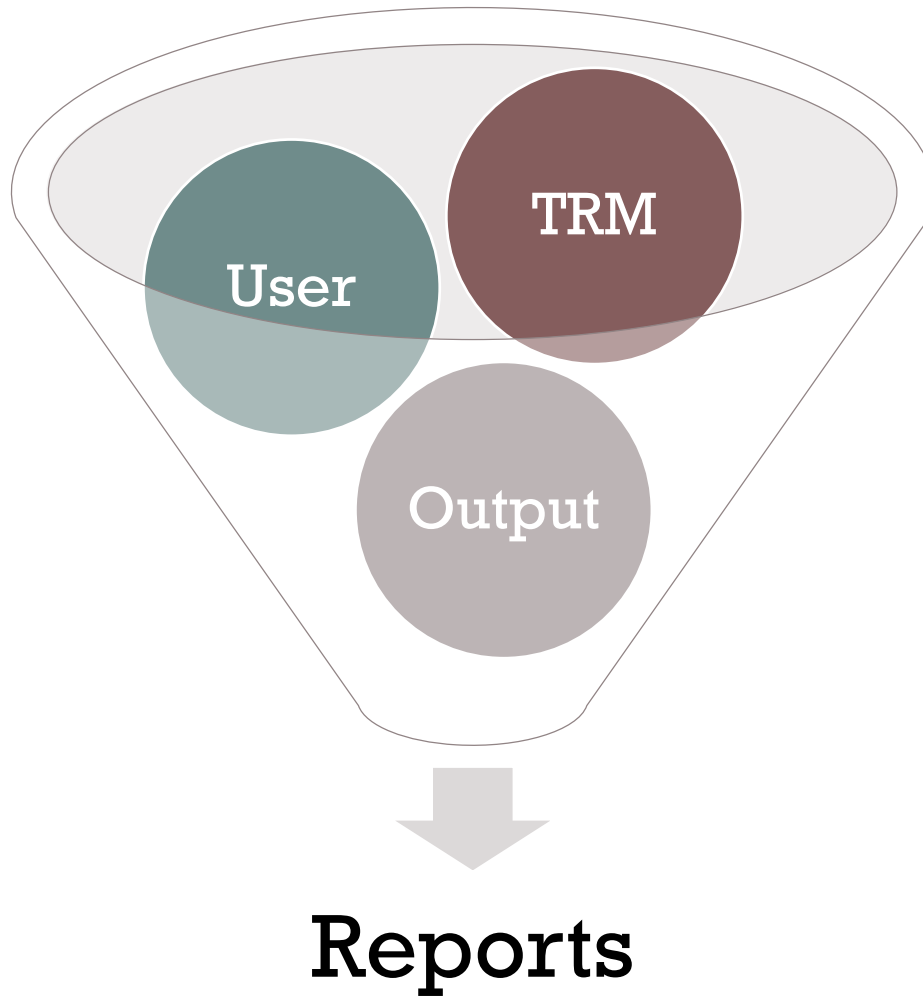




# IDENTIFIED FUTURE TOOLS

- Percent of transit, bicycle and pedestrian mode share (by TAZ)
- Percent of jobs within  $\frac{1}{4}$  and  $\frac{1}{2}$  mile of frequent bus service (e.g. 15 min headway or less)
- Annual per capita emissions from transportation sector (tons), including GHG (CO<sub>2</sub>), ozone (Nox), CO and particulate matter emissions
- Percent of transit, bicycle and pedestrian mode share (by transit corridor)
- Compare travel times and average speed of specific corridors across different scenarios
- Peak travel times on freeways and facilities that parallel CRT/BRT corridors, including thematic mapping of travel times, peak travel times for selected OD pairs, and travel time isochrones for selected notes





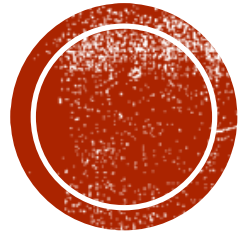
## **YOUR IDEAS AND/OR NEEDS**

We want to hear your ideas on beneficial end user tools.

Based on your experience with the TRM or experience elsewhere.

Use the chat box, or unmute to share your thoughts and ideas.





**CLOSING**

# NEXT STEPS

- Post Meeting Survey
- Next Meeting – Spring 2021
- Time for questions/comments?



Thanks for your time!

